

**RENILLA RENIFORMIS GREEN FLUORESCENT PROTEIN AND MUTANTS
THEREOF**

ABSTRACT

The invention relates to recombinant polynucleotides encoding the Green Fluorescent Protein (GFP) from *R. reniformis*, as well as polynucleotides encoding variants and fusion polypeptides of *R. reniformis* GFP. The invention further relates to vectors encoding *R. Reniformis* GFP and variants and fusions thereof, as well as to cells comprising and/or expressing such vectors. The invention also relates to recombinant *R. reniformis* GFP polypeptides and fusion polypeptides and variants thereof, as well as to methods of making and using such polypeptides both *in vivo* and *in vitro*.